

Attorney's Docket No.: 2112-050

PATENT

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION  
(FOR INTEL CORPORATION PATENT APPLICATIONS)**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated relative to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND APPARATUS FOR SUBSTRATE TO CONTROL FLOW OF UNDERFILL

the specification of which

X

is attached hereto.

as filed on (MM/DD/YYYY) as

United States Application Number

or PCT International Application Number

and was amended on (MM/DD/YYYY)

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I do not know and do not believe that the claimed invention was ever publicly used in the United States of America before my invention thereof, or patented or described in a printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or available in the United States of America more than one year prior to this application, nor do I know and believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America (for a utility patent application filed by me or my legal representatives or assigns more than twelve months before the date of the application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose all information known to me material to patentability as defined in Title 37, Code of Federal Regulations; Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate having an earliest priority date also identified below. Any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

(Number)	(Country)	(Priority Date – MM/DD/YYYY)	Priority Claimed	Yes	No

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below:

Application Number	(Filing Date – MM/DD/YYYY)
Application Number	(Filing Date – MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter claimed in the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the need to disclose all information known to me to be material to patentability as defined in 19 CFR 101.12 of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number	(Filing Date – MM/DD/YYYY)	Status – patented, pending, abandoned
Application Number	(Filing Date – MM/DD/YYYY)	Status – patented, pending, abandoned

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to Mark L. Fleshner, FLESHNER & KIM, LLP  
(Name of Attorney or Agent)

P.O. Box 221200, Chantilly, Virginia 20153-1200 and direct telephone calls to

David C. Oren at (703) 502-9440.  
(Name of Attorney or Agent)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Atsushi YAMADA

Inventor's Signature Atsushi Yamada Date 11/25/03

Residence Ibaraki, Japan Citizenship Japanese  
(City, State) (Country)

Post Office Address 2-4-54 Kamiya  
Ushiku, Ibaraki 300-1216

Full Name of Second/Joint Inventor Hideki GOTO

Inventor's Signature Hideki Goto Date 11/25/03

Residence Ibaraki-ken, Japan Citizenship Japanese  
(City, State) (Country)

Post Office Address 2-6-14, Arakawaoki, Higashi  
Tsuchiura-Shi, Ibaraki-ken 300-1171

Full Name of Third/Joint Inventor Dennis Prem Kumar CHANDRAN

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Penang, Malaysia Citizenship Malaysian  
(City, State) (Country)

INTEL CORPORATION  
Rev. 07/25/02 (D3 INTEL)

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and general agents, with full power of substitution and revocation, to prosecute this application and to conduct all business in the Patent and Trademark Office connected herewith.

Send correspondence to Mark L. Fleshner, FLESHNER & THOMAS, LLP  
(Name of Attorney or Agent)

P.O. Box 221200, Chantilly, Virginia 20153-1200 and direct telephone calls to:

David C. Oren at (703) 602-9440.  
(Name of Attorney or Agent)

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may affect the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Atsushi YAMADA

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Ibaraki, Japan \_\_\_\_\_ Citizenship Japanese \_\_\_\_\_  
(City, State) \_\_\_\_\_ (Country) \_\_\_\_\_

Post Office Address 2-4-54 Kamiya  
Ushiku, Ibaraki 300-1216

Full Name of Second/Joint Inventor Hideki GOTO

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Ibaraki-ken, Japan \_\_\_\_\_ Citizenship Japanese \_\_\_\_\_  
(City, State) \_\_\_\_\_ (Country) \_\_\_\_\_

Post Office Address 2-6-14, Arakawa-ku, Higashi  
Tsuchiura-Shi, Ibaraki-ken 300-1111

Full Name of Third/Joint Inventor Dennis Prem Kumar CHETTY

Inventor's Signature [Signature] Date 1/27/2003

Residence Penang, Malaysia \_\_\_\_\_ Citizenship Malaysian \_\_\_\_\_  
(City, State) \_\_\_\_\_ (Country) \_\_\_\_\_

Post Office Address 2-4-4, Sri Nipah Apartments, Master Building, Taman Ipoh Sg. Dua, Penang, Malaysia 11700

INTEL CORPORATION  
Rev. 07/25/02 (D3 INTEL)

DEO - AVAILABLE COPY

BEST AVAILABLE COPY

Full Name of Fourth/Joint Inventor Leng Chee SEE

Inventor's Signature Jung Date 28 November 2003

Residence Penang, Malaysia Citizenship Malaysian  
(City, State) (Country)

Post Office Address 33-8-9, Lakeside Towers, Tingkat bukit Jambul 1  
Bayan Lepas, Penang, Malaysia 11900

Full Name of Fifth/Joint Inventor Heng Gee LEE

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Penang, Malaysia Citizenship Malaysian  
(City, State) (Country)

Post Office Address 12A Lorong Kenari 7, Sungai Ara  
Penang, Malaysia 11900

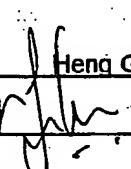
Full Name of Fourth/Joint Inventor Leng Chee SEE

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Penang, Malaysia Citizenship Malaysian  
(City, State) (Country)

Post Office Address 33-8-9, Lakeside Towers, Tingkat bukit Jambul 1  
Bayan Lepas, Penang, Malaysia 11900

Full Name of Fifth/Joint Inventor Heng Gee LEE

Inventor's Signature  Date 11/28/2003

Residence Penang, Malaysia Citizenship Malaysian  
(City, State) (Country)

Post Office Address 12A Lorong Kenari 7, Sungai Ara  
Penang, Malaysia 11900

APPENDIX A

Daniel Y.J. Kim, Reg. No. 36,186; Mark L. Fleshner, Reg. No. 37,740; Carl R. Wesolowski, Reg. No. 40,372; John C. Eisenhart, Reg. No. 38,128; Carol L. Draeger, Reg. No. 40,287; Laura L. Lee, Reg. No. 48,752; Rene A. Vazquez, Reg. No. 38,647; Donald R. McNamee, Reg. No. 45,811; Samuel W. Ntros, Reg. No. 39,318; John L. Ciccozzi, Reg. No. 48,984; Mark F. Chiaro, Reg. No. 49,507; David C. Oren, Reg. No. 38,694, my patent attorneys, and Timothy M. Speer, Reg. No. 37,784; Daniel H. Sherr, Reg. No. 46,425; my patent agents, of FLESHNER & KIM, LLP, with offices at 10000 Rockville Pike, P.O. Box 221200, Chantilly, Virginia 20153-1200, telephone (703) 502-9440, and Alan K. Aldous, Reg. No. 41,906; Ed Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert A. Burtzlaff, Reg. No. 41,906; Edward G. Calderwood, Reg. No. 35,468; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas, Reg. No. 39,973; Jeffrey B. Huter, Reg. No. 41,086; John Kacvinsky, Reg. No. 40,040; Seth Z. Johnson, Reg. No. 40,670; David J. Kaplan, Reg. No. 41,105; Peter Lam, Reg. No. 44,855; Anthony Manzo, Reg. No. 44,223; Paul Nagy, Reg. No. 37,896; Dennis A. Nicholls, Reg. No. 42,036; Leo V. Novakoski, Reg. No. 37,198; Lanny Parker, Reg. No. 44,281; Thomas C. Reynolds, Reg. No. 32,488; Kenneth M. Schmitz, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Steven P. Skabrat, Reg. No. 38,279; Howard T. Smith, Reg. No. 36,008; Robert G. Winkle, Reg. No. 37,474; Sharon Wong, Reg. No. 37,760; Steven J. Zelcer, Reg. No. 42,242; Calvin E. Wells, Reg. No. 43,256 and Charles K. Young, Reg. No. 39,434, my patent attorneys, of INTEL CORPORATION; and James R. Thelin, Reg. No. 31,710, my patent agent, with power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

## APPENDIX B

### Title 37, Code of Federal Regulations Duty to Disclose Information Material to Patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and honesty. In dealing with the Office, which includes a duty to disclose to the Office all information known to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application is abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any pending claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if information known to be material to patentability of any claim issued in a patent was cited by the Office as relevant to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted for an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully consider:

(1) Prior art cited in search reports of a foreign patent office or an counterpart application, and

(2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to the extent that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability if it is not cumulative to information already of record or being made of record in the application, and:

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes:

(i) Opposing an argument of unpatentability relied on by the Office; or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration of evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the attorney or agent, or with whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

(e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

BEST AVAILABLE COPY